

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

**1. – 5. (Canceled)**

**6. (Currently Amended)** An apparatus for molding a replica comprising:  
a mother mold having a mold cavity corresponding to the outer contour of an article to be duplicated, said mother mold being formed from a transparent cured product of a photo-curable liquid silicone rubber composition,  
a means for casting or filling the mold cavity with a photo-curable liquid resin, and  
a means for irradiating light to the photo-curable liquid resin from outside the mother mold thereby curing the photo-curable resin.

**7. (Canceled)**

**8. (Original)** The apparatus of claim 6 wherein said casting means includes a means for agitating and defoaming said photo-curable liquid resin under a reduced pressure.

**9. (Original)** The apparatus of claim 6 wherein said light irradiating means irradiates light having a wavelength in the range of 200 to 500 nm.

**10. (New)** The apparatus of claim 6, wherein the transparent cured product forming the mother mold has a Shore A hardness of 20 to 60 and a transmittance of incident actinic radiation of at least 10%T at a wall gage of 10 mm.

11. (New) The apparatus of claim 10, wherein the transparent cured product forming the mother mold has a Shore A hardness of 30 to 50.

12. (New) The apparatus of claim 6, further comprising the mold cavity being at least partly filled with a radical polymerization type liquid resin composition comprising: (1) a low molecular weight compound having at least one ethylenically unsaturated bond, an oligomer thereof or a mixture thereof and (2) a photo-initiator capable of absorbing actinic radiation to initiate polymerization thereof.

13. (New) The apparatus of claim 6, wherein the transparent cured product of the mother mold is cured from a photo-curable liquid silicone rubber composition comprising (i) 100 parts by weight of an organopolysiloxane and (ii) 0.01 to 5 parts by weight of a photo-initiator,

the organopolysiloxane (i) comprising:

(A) 30 to 100% by weight of an organopolysiloxane of the following average compositional formula (1):



wherein R, which is identical or different, is a substituted or unsubstituted monovalent hydrocarbon group free of an aliphatic unsaturated bond or an alkoxy group; R<sup>1</sup>, which is identical or different, is a photo-reactive group selected from a (meth)acryloyl-containing group, vinyloxyalkyl group, and epoxy-containing group; and letters a and b are positive numbers satisfying  $1.90 \leq a < 2.40$ ,  $0.0003 \leq b \leq 0.10$ , and  $1.90 < a + b \leq 2.40$ , the organopolysiloxane containing at least two photo-reactive groups in a molecule and having a viscosity of 100 to 1,000,000 centipoise at 25°C, and

(B) 0 to 70% by weight of a silicone resin comprising  $R_pR^1_qSiO_{1/2}$  units (M),  $SiO_2$  units (Q), and/or  $XSiO_{3/2}$  units (T) wherein R and  $R^1$  are as defined above, letters p and q each are equal to 0, 1, 2 or 3 and satisfy  $p + q = 3$ , X is selected from R and  $R^1$ , the molar ratio  $M/(Q + T) = 0.6$  to 1.2, and the molar ratio  $R^1/Si = 0.01$  to 0.10, the silicone resin (B) being soluble in component (A).

14. (New) The apparatus of claim 6, wherein the transparent cured product of the mother mold is cured from a photo-curable liquid silicone rubber composition comprising (iii) an organopolysiloxane and (iv) a photo-initiator, the organopolysiloxane (iii) comprising:

(C) 30 to 100% by weight of an organopolysiloxane of the following average compositional formula (2):



wherein R, which is identical or different, is a substituted or unsubstituted monovalent hydrocarbon group free of an aliphatic unsaturated bond or an alkoxy group;  $R^2$ , which is identical or different, is an aliphatic unsaturated group selected from an alkenyl group and an oxygen atom-containing aliphatic unsaturated group; and letters c and d are positive numbers satisfying  $1.90 \leq c < 2.40$ ,  $0.0003 \leq d \leq 0.10$ , and  $1.90 < c + d \leq 2.40$ , the organopolysiloxane containing at least two aliphatic unsaturated groups in a molecule and having a viscosity of 100 to 1,000,000 centipoise at 25°C;

(D) 0 to 70% by weight of a silicone resin comprising  $R_pR^2_qSiO_{1/2}$  units (M),  $SiO_2$  units (Q), and/or  $YSiO_{3/2}$  units (T) wherein R and  $R^2$  are as defined above, letters p and q each are equal to 0, 1, 2 or 3 and satisfy  $p + q = 3$ , and Y is selected from R and  $R^2$ , the molar ratio  $M/(Q + T) = 0.6$  to 1.2, and the molar ratio  $R^2/Si = 0.01$  to 0.10, the silicone resin (D) being soluble in component (C); and

(E) an organosilane or organosiloxane containing at least two mercapto groups in a molecule in such an amount that the equivalent of mercapto groups is 0.1 to 20 relative to the aliphatic unsaturated groups supplied from components (C) and (D).

**15. (New)** The apparatus of claim 6, wherein the transparent cured product of the mother mold is cured from a photo-curable liquid silicone rubber composition comprising:

(C) 30 to 100% by weight of an organopolysiloxane of the following average compositional formula (2):



wherein R, which is identical or different, is a substituted or unsubstituted monovalent hydrocarbon group free of an aliphatic unsaturated bond or an alkoxy group; R<sup>2</sup>, which is identical or different, is an aliphatic unsaturated group selected from an alkenyl group and an oxygen atom-containing aliphatic unsaturated group; and letters c and d are positive numbers satisfying 1.90 ≤ c < 2.40, 0.0003 ≤ d ≤ 0.10, and 1.90 < c + d ≤ 2.40, the organopolysiloxane containing at least two aliphatic unsaturated groups in a molecule and having a viscosity of 100 to 1,000,000 centipoise at 25°C;

(D) 0 to 70% by weight of a silicone resin comprising R<sub>p</sub>R<sup>2</sup><sub>q</sub>SiO<sub>1/2</sub> units (M), SiO<sub>2</sub> units (Q), and/or YSiO<sub>3/2</sub> units (T) wherein R and R<sup>2</sup> are as defined above, letters p and q each are equal to 0, 1, 2 or 3 and satisfy p + q = 3, and Y is selected from R and R<sup>2</sup>, the molar ratio M/(Q + T) = 0.6 to 1.2, and the molar ratio R<sup>2</sup>/Si = 0.01 to 0.10, the silicone resin (D) being soluble in component (C);

(F) an organohydrogenpolysiloxane of the following average compositional formula (3):



wherein R, which is identical or different, is a substituted or unsubstituted monovalent hydrocarbon group free of an aliphatic unsaturated bond or an alkoxy group, letters e and f are positive numbers satisfying  $0.70 \leq e \leq 2.69$ ,  $0.01 \leq f \leq 1.20$ , and  $1.5 \leq e + f \leq 2.7$ , the organohydrogenpolysiloxane containing at least two SiH groups in a molecule, in such an amount that 0.4 to 10 SiH groups are available per aliphatic unsaturated group supplied from components (C) and (D); and

(G) a catalytic amount of a platinum catalyst for effecting hydrosilylation between the aliphatic unsaturated groups in components (C) and (D) and the SiH group in component (F) upon light exposure.

**16. (New)** The apparatus of claim 6, wherein the mother mold consists of the transparent cured product of a photo-curable liquid silicone rubber composition.

**17. (New)** The apparatus of claim 6, wherein the mother mold is separable into two or more sections to allow removal of the article to be duplicated.

**18. (New)** The apparatus of claim 6, wherein the means for irradiating light is one or more UV fluorescent lamps.

**19. (New)** The apparatus of claim 6, wherein the mother mold is provided with a runner for filling the mold cavity with a photo-curable liquid resin.